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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/441,083	11/16/1999	KIYOSHI SUKEGAWA	1614.1011	3835
21171	7590	08/27/2002	EXAMINER TRAN, DZUNG D	
STAAS & HALSEY LLP 700 11TH STREET, NW SUITE 500 WASHINGTON, DC 20001			ART UNIT 2633	PAPER NUMBER
DATE MAILED: 08/27/2002				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/441,083	SUKEGAWA ET AL. N	
	Examiner	Art Unit	
	Dzung D Tran	2633	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 16 November 1999.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-12 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some *
 - c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u>	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Specification

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-8, 10 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koga et al. U.S. patent no. 5,995,254 in view of Shimomura U.S. patent no. 6,404,525.

In considering claims 1 and 12, Koga et al. disclose a wavelength division multiplexing light transmitting system which can monitor its transmission line, the transmission line monitoring comprising:

a first optical coupling unit (figure 2, element 14) which couples a down data signal of a first wavelength (figure 2, element $\lambda 1$) and an examination signal of a second wavelength (figure 2, element $\lambda 2$) so as to transmit a first coupled signal to a lower apparatus (column 3, lines 36-50);

a first optical dividing unit (figure 2, element 13) which receives said first coupled signal from said optical coupling unit so as to divide said first coupled signal into said down data signal with the first wavelength (figure 2, element $\lambda 1$) and said examination signal with the second wavelength (figure 2, element $\lambda 2$, column 3, lines 36-50);

a second optical coupling unit (figure 2, element 14) which couples an up data signal with the first wavelength and said examination signal from said first optical dividing unit so as to transmit a second coupled signal toward a host apparatus;

a second optical dividing unit (figure 2, element 13) which receives said second coupled signal from said second optical coupling unit so as to divide said second coupled signal into said up data signal with the first wavelength and said examination signal with the second wavelength. Although, Koga does disclose the receiving sections 11, 27, 28, 29 for monitoring and detect a condition of the transmission line (abstract, column 2, lines 19-50, column 3, lines 60 to column 4, line 46), Koga does not specifically disclose a monitoring unit which monitors a fault and a location of said fault. Shimomura et al. disclose a monitor unit which monitors a fault and a location of said fault (figure 1, element 14, column 10, lines 48-65). Therefore, it would have been obvious to an artisan at the time of the invention was made to include the monitor unit of Shimomura in the transmission line monitoring of Koga in order to detect and monitor a fault in the transmission system.

In considering claim 2, Koga et al. further disclose first optical coupling unit, said first optical dividing unit, said second optical coupling unit, and said second optical dividing unit are formed of passive elements (Figure 2, elements 13, 14).

In considering claim 3, Koga et al. further disclose a first examination signal generator (figure 2, element 24) which generates said examination signal with the second wavelength (figure 2, element $\lambda 2$).

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In considering claim 5, Koga et al. further disclose a second examination signal generator (figure 2, element 24) which divides an input down data signal into two signals, one signal being converted into said down data signal with the first wavelength, the other signal being converted into said examination signal with the second wavelength.

In considering claims 4, 7 and 8, Shimomura et al. further disclose control unit includes:

an alarm information output unit which monitors a signal level of said examination signal with the second wavelength and, if said signal level is lower than a predetermined signal level, then outputs alarm information (column 5, lines 29-63); and

an alarm information displaying/transferring unit which, when said alarm information is outputted, displays said alarm information and insert said alarm information into said up data signal to be transmitted to said host apparatus and controls start and stop of said alarm information output unit and start and stop of said alarm information display/transferring unit (abstract, column 5 line 29 to column 6, line 63).

In considering claim 10, Shimomura et al. further disclose detecting unit which detects a command signal included in said down data signal so as to manage said first control unit based on said command signal (figure 1, abstract and column 10 line 48 to column 12, line 17).

In considering claim 6, Shimomura et al. further disclose system monitor detects an error information output unit which outputs synchronous error information and data

signal error information based on said examination signal with the second wavelength; and an error information displaying/transferring unit which, when said synchronous error information and said data signal error information are outputted, displays said error information and inserts said error information into said up data signal to be transmitted to said host apparatus (abstract, column 10 line 48 to column 12, line 17).

3. Claims 9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koga et al. U.S. patent no. 5,995,254 in view of Shimomura U.S. patent no. 6,404,525 and further in view of Fassih-Nia et al. U.S. patent no. 6,307,652.

In considering claim 11, as per claims above, Koga and Shimomura disclose all the limitations except for a timer for managing said first control unit at given intervals. Fassih-Nia et al. disclose the control unit with a timer (column 3, lines 54-65). It would have been obvious to an artisan at the time of the invention was made to include the control unit with a timer of Fassih-Nia et al. in the system of Koga and Shimomura in order to manage the timing of the optical signal and controlling the examination signals.

In considering claim 11, Shimomura et al. further disclose detecting unit which detects a command signal included in said down data signal so as to manage said first control unit based on said command signal (figure 1, abstract and column 10 line 48 to column 12, line 17).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Yoneyama U.S. patent no. 5,923,453. Apparatus for measuring optical transmission line property and optical wavelength multiplexing transmission apparatus.
 - b. Liu et al. U.S. patent no. 6,115,155. System dealing with faults in an optical link.
 - c. Taga et al. U.S. patent no. 5,790,289. WDM optical communication with pre-emphasis technique.
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dzung Tran whose telephone number is (703) 305-0932.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Jason Chan, can be reached on (703) 305-4729.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.



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